TURBIN, K.G.

Legume-fescue mixtures. Zemledelie 27 no.1:75-76 Ja '65.
(MIRA 18:3)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

TURBIN, K.G.

USSR/Cultivated Plants - Fodders. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53674

Author : Kvasinkov, V.V., Mukhortov, Ya.N., Kushilkina, N.V., Turbin, K.G.

Inst : Voronezh Institute of Agriculture

Title : The Effect of Sudan Grass on Soil Structure

Orig Pub : Vestn. s.-kh. nauki, 1957, No 4, 49-54

Abstract : Experiments conducted by the Voronezh Institute of Agriculture on leached out medium clayey chernozem in 1955-1956, showed that toward the end of vegetation Sudan grass had accumulated, in the soil layer of 0-40 cm, 37.9-44.1 centners/ha of air-dry roots, the mixture of Sudan grass with vetch, peas or vetchling accumulated 42.2-53.7 centners/ha, the mixture of alfalfa and couch grass of the first year of use accumulated 35.8-41.5

Card 1/3

centners/ha. Mixtures of Sudan grass with legume cultures produced 30% more of thin roots (diameter < 1 mm) than the pure sowing of Sudan grass or the sowing of perennial grasses. Toward fall, 24% of the thin roots of the accumulated mixture of Sudan grass and vetchling underwent decomposition. With regard to the accumulation of water resistant soil aggregates, the total N content and the content of nitrates- the mixtures of Sudan grass with legume cultures were almost equal to the perennial grasses. The buckwheat yield on the mixture of Sudan grass and vetch comprised 13.6 centners/ha; on the Sudan grass the yield was 12.9 centners/ha; on the vetch-oat mixture 13.5 centners/ha and on the perennial grasses - 13.7 centners/ha. The hay yield of the mixture of Sudan grass with vetch comprised 43.4 centners/ha; the yield of Sudan grass was 40.4 centners/ha; the yield of vetch-oat mixture was 28.7 centners/ha and the yield of the

Card 2/3

under cover sowing of alfalfa with couch grass of first year use - was 21.9 centners/ha. - F.V. Koperzhinskiy

Card 3/3

TURBIN, L.I.; MALYGIN, V.V.

Alpine endogenetic mineralization of some regions in the western Tien Shan. Zakonom.razm.polezn.iskop. 7:385-387 '64.
(MIRA 17:6)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Kirgizskov SSR i Geologicheskiy institut Akademii nauk Kirgizskoy SSR.

TURBIN, L.I.

New data on the Upper Paleozoic stratigraphy of northeastern Fergana. Mat. po geol. Tian'-Shania no.3:107-120 '62. (MIRA 16:7)

(Fergana--Geology, Stratigraphic)

TURBIN, L. M. (Senior Scientific Worker of the Leningrad NIVI Scientific Research Veterinary Institute.)

"Removal of the Self-Inhibitory Properties of the Foot-and-Mouth Disease Antigens when the Virus is Typed."
Veterinariya vol. 38., no. 11., November 1961., p. 76

TURBIN, L.N.

Experimental studies of virus retention in the incubation [illegible] foot-and-mouth disease and of pathogenesis (from "Arch. [illegible] Vet.," 1957, no.4). Veterinariia 36 no.5:35-36 My '59.

(Foot-and-mouth disease)

TURBIN, L.N.

TURBIN, L.N.: "The epizootology of hoof-and-mouth disease of agricultural animals and specific prophylaxis". Leningrad, 1955. Min Higher Education USSR. Leningrad Veterinary Inst. (Dissertations for the Degree of Candidate of Veterinary Sciences).

SO: Knizhnaya letopis' No 45, 5 November 1955. Moscow.

TURBIN, L.M., starshiy nauchnyy sotrudnik

Eliminating the self-inhibiting properties of foot-and-mouth antigens in the typing of the virus. Veterinariia 38 no.11:76-77 N '61 (MIRA 18:1)

1. Leningradskiy nauchno-issledovatel'skiy veterinarnyy institut.

TURBIN, L.N.

Creative initiative decides success. Avtom., telem. i sviaz' 8 no.5:24-27 My '64. (MIRA 17:10)

1. Zamestitel' nachal'nika Serpukhovskoy distantsii Moskovskoy dorogi.

TURBIN, M.V.; ZAGREKOVA, V.M. [Zahrekava, V.M.]

Morphological characteristics of F_1 and F_2 plants in remote hybridization. Vestsi AN BSSR. Ser. biial. nav. no.3:5-12 '60. (MIRA 14:1)

(WHEAT BREEDING)

TURBIN, M.V.

Charles Darwin's creative methods. Vestsi AN BSSR.Ser.biial.nav. no.4:10-17 '59. (MIRA 13:4)
(Darwin, Charles Robert, 1809-1882)

TURBIN, M.V.

Information and heredity. Vestsi AN BSSR. Ser. biial. nav. no.3:5-9 '59. (MIRA 12:12)
(Heredity)

TURBIN, M.V.

Nucleoproteins and heredity. Vestsi AN BSSR.Ser.biial.nav. no.2:12-24 '59. (MIRA 12:9)
(NUCLEOPROTEINS) (HEREDITY)

TURBIN, M.Z., ispolnyayushchiy obyazannosti dotsenta

New economic system for catching ferromagnetic bodies from conveyor belts. Sbor. trud. Khab. avt.-dor. inst. no.1:51-58 '62.
(MIRA 18:1)

TURBIN, N.

TURBIN, N. BAULIN, Ya.

Building Machinery

Movable ladder-scaffold. Sel'.stroi. No. 4. 1952

9. Monthly List of Russian Accessions, Library of Congress, November 1953. Unclassified.

TURBIN, N. I., jt. au.

KOKIN, A. D. Building and architecture; basic information.

TH845.K6 1953
1. Building. 2. Architecture. I Turbin, N.I., jt. au.

TURBIN, N. V.

Nov 1947

USSR/Medicine - Hybridity
Medicine - Spectrum Analysis

"Spectrophotometric Studies of Plant Hybrids and the Biological Peculiarities of the SElective Absorption of Ultraviolet Rays by Plant Tissues," N. V. Turbin, V. Ye. Kozlov, Leningrad State University, State Optical Institute, 3 pp

"Dok Ak Nauk" Vol LVIII, No 6

Recently there has been increasing use of a spectrophotometric method of studying the absorption characteristics of various organs particularly for albumin. As a result a spectrophotometric study of the absorption of the ultraviolet rays by the protoplasm of plant growth was conducted to determine some type of biologic peculiarity in the absorption of certain rays. Submitted by Academician L.A. Orbeli 18 May.

PA 36T33

TURBIN, N. V.

Turbin, N. V. - "A triumph of Michurinist biology. The historical significance of the August meeting of the All-Union Academy of Agricultural Sciences imeni V. I. Lenin", Vestnik Leningr. un-ta, 1948, No. 10, p. 21-51.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

TURBIN, N. V. i BOGDANOVA, E. N.

26294 K voprosy o prirode protsessa oplodotvoreniya u rasteniy. Izvestiya akad. nauk. sssr, seriya biol. 1949, No. 4, s 432-54---Bibliogr: 10 nazu.

SO: LETOPIS' NO. 35, 1949

TURBIN, N. (Prof) PA 1/50T4

USSR/Agriculture - Heredity, Mechanism Jul 49
(Contd)

by Soviet biologists in the study of heredity which is evidenced by the indisputable facts of vegetative hybridization.

1/50T4

USSR/Agriculture - Heredity, Mechanism Jul 49
Hybridization

"Review of I. Ye Glushchenko's, 'Vegetative Hybridization of Plants,'" Prof N. Turbin, Docent V. Razumov, 1 p

"Nauka i Zhizn'" No 7

Prof Glushchenko is a disciple and collaborator of Lysenko. Book is a survey of domestic and foreign literature on this subject of great value for research workers, teachers and students, and a clear statement of Glushchenko's experimental data. It shows the advance made

1/50T4

TURBIN, N. V.

27017. TURBIN, N. V. - God raboty posle avgustovskoy sessii VASKHNIL. (iz opyta Biol. Fak. lgu). Vestnik vyssh. Shkoly 1949 no 7, S. 6-10

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

TURBIN, N.V., professor; KOZLOV, V.Ye., nauchnyy sotrudnik.

Spectrophotometric study of the absorption of ultraviolet light by the living tissues of cotyledons of tomato hybrids and their parental forms. Nauch. biul. Len. un. no.22:27-28 '49.(MLRA 10:4)

1. Laboratoriya genetiki rasteniy.
(Ultraviolet rays--Physiological effect)
(Plant cells and tissues)

Turbin, N. V.

USSR/Biology - Cross Pollination

"Influence of Self-Fertilization, During Interbreeding, on the Vitality of Hybridial Progeny," N. V. Turbin, Chair of Genetics, Leningrad State

Zhur Obshch Biol, Vol 12, No 4, pp306-310, 1951

Cross-pollination is of special interest in production of a hybrid of equal or better vigor than the original. Some proof substantiating existing theories may serve as a basis for evaluation of the significance of self-pollination in interbreeding; in the biology of fertilization and the physiology of heredity, the study of multiple pollination is quite essential in both scientific and practical respects. Incomplete data shows that the presence of own pollen in plants which have been cross-pollinated is useful.

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TURBIN, N V

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NOVYYE DANNYYE MICHURINSKOY BIOLOGII O PROTSESSE OPLODOTVORENIYA. MOSKVA, IZD-VO ZNANIYE, 1952.

29 P. ILLUS., DIAGRS., TABLES (VSESOYUZNOYE OBSHCHESTVO PO RASPROSTRANENIYU POLITICHESKIKH I NAUCHNYKH ZNANIY. 1952, SERIYA 2, NO. 54)

RUSSIA

TURBIN, N.V., BOGANOVA, Ye. N., KHOROSHAVINA, A.M.

Fertilization of Plants

Findings in the study of repeated pollination of fecundated ovicells of the tomatoes. IZ AN SSSR. Ser. biol., No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

1. TURBIN, N. V. and DOMORYAD, N. P.

2. USSR(600)

4. Radishes

7. Strengthening the stability of inherited qualities in plants by selection under conditions of free cross-pollination. Vest.Len.un. 7 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

1. TURBIN, N. V.

2. USSR (600)

4. Fertilization of Plants

7. What's new in the biology of fertilization. Vestl. Len. un. 7, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

TURBIN, N. V.

Hybridization, vegetable

Influence of the autogamous pollen in cross pollination upon the viability of the hybrid descendants. Zhur. ob. biol. 13, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, 2 Uncl.

1. TURBIN, N.V., PROF.; PALILOV, A.I.

2. USSR (600)

4. Plant Breeding

7. Castration of female spikes for the free intervarietal cross-pollination of wheat. Sel. i sem. 19 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. TURBIN, N. V.

2. USSR (600)

4. Fertilization of Plants

7. Biological role of supplementary pollination from a foreign species. Usp. sovr.biol. 34 No. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. TURBIN, N. V.

2. USSR (600)

4. Plants-Reproduction

7. Dependence of fertility of plants and viability of their progeny on the state of maturity of the reproductive elements.
Bot. zhur. 37 No. 6, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

TURBIN, N. V.

"Darwinism and the New Teaching on Species," Bot Zhur, Vol 37, No 6, Nov/Dec 1952, pp 798-818.

Article criticizes Lysenko

TURBIN, N. V. PROF

FM 24472

USSR/Agriculture, Biology - Hybridization Feb 53

"Multiple Fertilization of Plants," Prof N. V. Turbin, Leningrad State U imeni A. A. Zhdanov

"Priroda" Vol 42, No 2, pp 101-104

By fertilizing a plant several times, and using pollen from plants of varieties or species which both include that of the mother plant and differ from that of the mother plant, triple interva-riety and interspecies hybrids can be obtained, or the formation of ordinary hybrids can be

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stimulated. With the use of this new method discovered at Leningrad State U, watermelon flowers can be fertilized by cucumber and pumpkin pollen, watermelons can be crossed with cucumbers, melons with pumpkins, etc. The method also proved applicable to the breeding of interspecies hybrids of chickens, rabbits, and swine which acquire the characteristics of two producers (fathers) in addition to those of the mother. Cytological examination showed that two sperm cells enter the same egg cell when either animals or plants are crossed by this method.

24472

TURBIN, N. V.

USSR/Biology - Hybridization 1 Nov 53

"The Problem of the Biological Role of Repeated Pollination of Plants," N. V. Turbin, Leningrad State U

DAN SSSR, Vol 93, No 1, pp 167-169

Author presents facts which in his opinion prove that fertilization of a plant with pollen derived from two different plants results in inheritance of characteristics of both plants furnishing the pollen. He also states that both intervariety and interspecies crosses that have an increased

275T1

vigor can be obtained by this method of pollination. Presented by Acad V. N. Sukachev 11 Aug 53.

TURBIN, N. V.

TURBIN, N.V., zaveduyushchiy kafedroy; ZALIVSKAYA, Ye.I.

Effect of the presence of antogenous pollen in crossbreeding on the viability of the hybrid progeny. Uch.zap.Len.un. no.165:3-12 '53. (MLRA 7:7)

1. Kafedra genetiki i selektsii.
(Fertilization of plants) (Hybridization, Vegetable)

TURBIN, N.V., professor, redaktor; MEL'NIKOVA, G.G., redaktor.

[Problems in the biology of fertilization] Voprosy biologii oplodotvoreniia. Pod red. N.V.Turbina. Leningrad, Izd-vo Leningradskogo univ., 1954. 392 p. (MLRA 7:11)

1. Deystvitel'nyy chlen Akademii nauk Belorusskoy SSR (for Turbin). 2. Leningrad. Universitet.
(Fertilization (Biology))

TURBIN, N.V.

For Darwinism in the theory of the formation of species. Vest. Len.un. 9 no.10:31-42 O '54. (MLRA 8:7)
(Origin of species)

TURBIN, N.V.

When there is nothing substantial to say (Answer to N.I.Mushdin)
Zhur.ob.biol. 15 no.3:233-240 My-Je '54. (MLRA 7:6)
(EVOLUTION) (GENETICS)

TURBIN, N. V.

"Peculiar Methods of Proving the New Theory of the Formation of Species," Usp. Sovrem. Biol., 37, No.3, pp 361-65, 1954

Translation M-696, 19 Aug 55

TURBIN, N.V.

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, 25 March 1957, 21264

Author : Turbin, N.V.
Inst : ~~not given~~ Moscow Society of Naturalists
Title : For Darwinism in the Theory of Evolution of Species.

Orig Pub: Byul. Mosk. o-va ispigatelei prirodi, otd. biol., 1954, 59, No 5, 77-92

Abstract: Preliminary results are given of the discussion on problems of evolution of species, one of the initiators of which was the author. It is noted that the discussion was a fruitful one and showed the erroneousness of the new theory of evolution of species propagated by T.D. Lysenko. In the author's opinion, the overwhelming majority of botanists and representatives of other biological specialties expressed themselves against Lysenko's views. The problem is discussed in detail as to whether Darwinism rejects the qualitative changes

Card : 1/2

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21264

in development of living nature. The conclusion is made that Lysenko's viewpoint on this problem is erroneous.

Card : 2/2

TURBIN, N.V.

Great transformer of nature. Izv. AN BSSR no.5:3-20 S-O '55.
(Michurin, Ivan Vladimirovich, 1855-1935) (MLRA 9:2)

TURBIN, N.V.; VOLODIN, V.G.

On the biology of wheat flowering. Dokl.AN SSSR 107 no.4:601-603 Ap '56. (MLRA 9:7)

1.Akademik AN BSSR (for Turbin).2.Institut biologii Akademii nauk BSSR.
(Wheat) (Plants, Flowering of)

USSR/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15538

Author : N.V. Turbin, Ye.I. Zalivskaya, A.N. Palilova, L.V. Khotyleva.

Inst : The Biological Institute of the Academy of Sciences Bielorussian SSR.

Title : The 1955 Tests on Corn Varicty, Strain and Hybrid Testing.
(Opyty 1955 g. po ispytaniyu sortov, liniy i gibridov kukuruzy).

Orig Pub : V sb.: Kukuruza v BSSR. Minsk. AN BSSR, 1957, 60-82

Abstract : The division of genetics of the Biological Institute of the Academy of Sciences, Bielorussian SSR studied in 1955 the biological and economical peculiarities of various varieties, strains, and hybries of corn and the

Card 1/2

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USSR/Cultivated Plants - Grains

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15538

initial stock in obtaining local highly productive hybrids and for explaining the factors which affect their heterosis. The results of testing more than 200 specimens of corn are given which were obtained from various quarters. Double interstrain hybrids yielded a bumper harvest in comparison with the best varieties and other corn hybrid forms. However, the parental strains from which the highly productive interstrain hybrids were gotten turned out to ripen very late. Hence, obtaining hybrid seeds by means of crossing these strains in Bielorussia is out of the question. In coming years the widest expanses in the Republic should be taken up with intervarietal hybrids.

Card 2/2

USSR/Cultivated Plants. Cereals. M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77616.

nation. The best aligned progeny from the first year of self-pollintion was obtained with forming of the lines on simple and double inter-line hybrids.
N. F. Fedorova.

Card : 2/2

USSR/Cultivated Plants. Grains. II

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68096

Author : Turbin, N. V., Volodin, V. G.
Inst : AS Bel SSR Institute of Biology.
Title : Supplementary Artificial Pollination of Rye with an Airplane.

Orig Pub : Byul. In-ta biol. AN BSSR, 1956 (1957), No 2, 199-202

Abstract : In 1956, in a kolkhoz of Minsk Oblast' an area of 50 hectare was planted with Partizanskaya winter rye and given supplementary pollination by using a PO-2 type airplane. The yield on these areas was higher than on control areas. -- O. A. Gorbunova

Card : 1/1

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USSR/General Biology. Evolution. B-7

Abs Jour: Ref Zhur-Biol., No 20, 1958, 90463.

Author : Turbin, N.V.
Inst : The Botanical Institute of the Academy of Sciences USSR.
Title : Open Problems in the Theory of Species Formation and Facts Derived from Experiments on the Introduction and Acclimatization of Plants.

Orig Pub: Tr. Botan. in-ta AN SSSR, 1957, vyp. 5, ser. 6, 138-143.

Abstract: Based on a generalizationof an experiment in introduction work, it is noted that the transferring of a species to new climate and soil conditions is never accompanied by the formation of new species. In this manner, the theory of a sudden transition of one biological species into another one by a change in the

Card : 1/3

present conditions is clearly proven erroneous by the plant introduction experiment. Some authors confuse the formation of new forms obtained through introduction with the formation of species. The appearance of new forms, apparently originating from the seeds of hybrids, has been observed in Sotch' among eucalyptus seedlings. In Pamir, karyotype changes have been observed in the potato. The Antonovka winter apple has originated a vegetative mutant, the one and a half pound Antonovka Michurin apple, etc. All this attests to a process of formation of new forms which follows introduction and selection, but not the sudden regeneration of a new species from another one. The Darwinian concept of the

USSR/General Biology. Evolution. D-7

Abs Jour: Ref Zhur-Biol., No 20, 1958, 90463.

origin of species by natural selection is in complete agreement with the known facts on the introduction and acclimatization of plants. -- A. I. Kuptsov.

Card : 3/3

Country :
Category : General Biology. B
General Genetics.
Abs. Jour : Rzhbiol., No. 2, 1959, No. 5126

Author : Turbin, N. V.
Institut. : -
Title : The Contemporary View about Genes.

Orig Pub. : Bul Univ. shetor. Tirnovo. Ser. sikvenc. natyr., 1957, 11, No. 2, 155-170
Abstract : No abstract.

Card: 1/1

TURBIN, N.V., akademik.

Contemporary concept of the gene. Vest.AN SSSR 27 no.4:54-67 Ap '57. (MLRA 10:5)

1.Akademiya Belorusskoy SSSR.
(Heredity)

TURBIN, N.V., akademik

Modern concepts of the gene. Uch.zap.BGU no.37:91-114 '57.
(MIRA 12:1)

1. AN BSSR.

(HEREDITY)

USSR/General Biology. Genetics B

Abs Jour : Ref Biol., No 13, 1958, 57193

Author : Turbin N. V., Lobotskaya L. I., Kunitskiy Ye. A.
Inst : Belorussian University
Title : Main Results of the 1955-1956 Experiments for the Study of Varieties, Lines, and Hybrids of Maize as the Initial Form for the Selection of Hybrid Maize Under Conditions of Belorussian SSR

Orig Pub : Pub. Uch. zap. Belorussk. un-t, 1957, vyp. 37, 255-327

Abstract : On the basis of preliminary studies the following initial forms are recommended as the best for the selection of corn in Belorussia: early ripening and medium early--Kichkasskaya, Melkaya khulinskaya, Severyanka, Belaya Pireneyskaya, Voronezhskaya 76; medium ripening--

Card 1/2

USSR/General Biology. Genetics B
Abs Jour : Ref Zhur-Biol., No 13, 1958, 57193

Abstract : Mandorfskaya and Zubovidnaya 235. Of those formed from the "intskht line", Zubovidnaya 2112, L-94, and N-95 are recommended. Good quality local intervariety hybrids have been obtained; Michkasskaya+Kestnaya polesskaya 1, Severodakotskaya+mixture of pollens of Abkhaz varieties. In their yield they are superior to intervariety hybrids. An evaluation of "intsukht-lines" was made on the basis of their hybrids with available varieties of maize. The opinion has been expressed that separate tests of a line make it possible to hope that on their base highly productive interlineal hybrids may be obtained in the future.

Card 2/2

TURBIN, N.V., akademik

Science and culture in the Rumanian People's Republic. Vestsi AN BSSR Ser. bilal. nav. no. 2:103-111 '58. (MIRA 11:8)

1. AN BSSR.

(Rumania--Research)

TURBIN, N.V.

Recent data on the biology of fertilization of seed plants; theses of a report. Biul.Inst.biol. AN BSSR no.3:167-169 '58. (MIRA 13:7)

(FERTILIZATION OF PLANTS)

TURBIN, N.V.; ZAGREKOVA, V.N.

Studying the effect of certain growing conditions, heterologous pollination, and double pollination on the setting of seeds in remote hybridization of wheat and rye. Biul.Inst.biol.AN BSSR no.3:170-176 '58. (MIRA 13:7)
(WHEAT BREEDING) (RYE BREEDING) (FERTILIZATION OF PLANTS)

TURBIN, N.V.; KEDROVA-ZIKHMAN, L.V.

Dependence of variation in characters in self-pollinated lines of corn on the quality of parent material. Biul.Inst.biol. AN BSSR no.3:177-181 '58. (MIRA 13:7)
(HYBRID CORN)

TURBIN, N.V.; KEDROVA-ZIKHMAN, L.V.

Depression in plants of self-pollinated lines of corn S_1 crossed with different parent material. Biul.Inst.biol.AN BSSR no.3: 182-184 '58. (MIRA 13:7)

(HYBRID CORN)

TURBIN, N.V.; PALILOVA, A.N.

Effect of genetic homogeneity of parent material on the degree of heterosis in corn hybrids. Biul.Inst.biol.AN BSSR no.3:185-189 '58. (MIRA 13:7)
(HYBRID CORN) (HETEROSIS)

TURBIN, N.V.; VAKHTIN, Yu.B.

Darwinism and genetical theories of heterosis. Biul. MOIP. Otd.biol. 64 no.6:131-140 N-D '59. (MIRA 13:5)
(HETEROSIS)

VINBERG, Georgiy Georgiyevich; ROSSOLIMO, L.L., retsenzent; KUZNETSOV, S.I., retsenzent; TURBIN, N.V., akademik, red.; BULAT, O., red.izd-va; TIMOSHCHUK, Iv., tekhn.red.

[Primary production of bodies of water] Pervichnaia produktsiia vodoemov. Minsk, Izd-vo Akad.nauk BSSR, 1960. 329 p. (MIRA 13:8)

1. AN BSSR (for Turbin).
(Phytoplankton)

TURBIN, N.V., akademik; BORMOTOV, V.Ye., starshiy nauchnyy sotrudnik

Current status and achievements of biology in the Hungarian People's Republic. Vestsi AN BSSR. Ser.biial.nav. no.1:130-139 '60. (MIRA 13:6)

1. AN BSSR (for Turbin).
(HUNGARY--BIOLOGY)

TURBIN, N.V.; KEDROVA-ZIKHMAN, L.V.; SHVARTS, M.K.

Breeding for combining ability. Biul. Inst. biol. AN BSSR no.5:210-217 '60. (MIRA 14:7)
(HYBRIDIZATION, VEGETABLE)

TURBIN, N.V.; ZAGREKOVA, V.N.

Viability of remote hybrids of the first and second generations. Biul. Inst. biol. AN BSSR no.5:271-279 '60. (MIRA 14:7)
(WHEAT BREEDING)

TURBIN, N.V., akademik, red.; BARMICHEV, V., red.izd-va; TURTSEVICH, L., tekhn. red.

[Heterosis; theory and methods for practical application] Geterozis; teoriia i metody prakticheskogo ispol'zovaniia. Pod red. N.V.Turbina. Minsk, Izd-vo Akad.nauk BSSR, 1961. 264 p. (MIRA 15:3)

1. Akademiya navuk BSSR, Minsk. Instytut biyalogii. 2. Akademiya nauk Belorusskoy SSR (for Turbin).

(Heterosis)

TURBIN, N.V.; KEDROVA-ZIKHMAN, L.V.

Breeding self-pollinated corn lines and evaluating them by their combining ability. Sbor. nauch. rab. Bel. otd. VBO no.3:127-136 '61. (MIRA 14:12)

(Corn breeding)

TURBIN, N.V.; BORMOTOV, V.Ye.

Breeding of polyploid beets in the Hungarian People's Republic; results of a scientific mission. Sbor. nauch. rab. Bel. otd. VBO no.3:240-249 '61. (MIRA 14:12)

(Hungary--Beet breeding)
(Polyploidy)

TURBIN, N.V., akademik, otv. red.; BORMOTOV, V.Ye., kand. biol. nauk, red.; KHOTYLEVA, L.V., kand. biol. nauk, red.; PALILOVA, A.N., kand. biol. nauk, red.; DAVIDOVICH, Z., red. izd-va; ATLAS, A., tekhn. red.

[Genetics and cytology of plants]Genetika i tsitologiia rastenii. Minsk, Izd-vo Akad. nauk BSSR, 1962. 121 p. (MIRA 16:3)

1. Akademiya nauk Belorusskoy SSR (for Turbin).
(Plant breeding)

TURBIN, N. V.,

"Heterosis and Genetic Balance."

report submitted for the 11th Intl. Congress of Genetice, The Hague, Netherlands, 2-10 Sep 63

TURBIN, N.V., akademik, otv. red.; VOLODIN, V.G., kand. biol. nauk, red.; PALILOVA, A.N., red.; KHOTYLEVA, L.V., red.

[Genetics of heterosis] Genetika geterozisa. Minsk, Izd-vo "Nauka i tekhnika," 1964. 74 p. (MIRA 18:12)

1. Akademiya navuk BSSR, Minsk. Otdel genetiki i tsitologii.
2. Akademiya nauk Belorusskoy SSR (for Turbin).

TURBIN, N.V.; ANOKHINA, V.S.

Causes of the "degeneration" of fodder lupine and methods of its elimination. Biul. MOIP. Otd. biol. 68 no.1:116-132 Ja-F '63. (MIRA 17:4)

TURBIN, N.V.; ANOKHINA, V.S.

Restoration of alkaloid biosynthesis in grafting pairs of incompatible varieties of fodder lupine. Vestsi AN BSSR. Ser. biial. nav. no.1:15-21 '64. (MIRA 17:6)

MOSSE, I.B.; TURUIN, N.V.; FREYMANIS, Ya.F.

Effect of conjugate aromatic systems on heredity. Report No.1: Mutagenic and antimutagenic effect of some indene compounds. Dokl. AN BSSR 8 no.12:827-829 D '64. (MIRA 18:4)

1. Otdel genetiki i tsitologii AN BSSR.

TURBIN, N. V., akademik; MIRONENKO, A. V.; SPIRIDONOVA, G. I.; ANOKHINA, V. S.

Restoration of alkaloid biosynthesis in hybrid lupine obtained from crossing incompatible pairs of alkaloidless varieties. Dokl. AN SSSR 155 no. 2:448-450 Mr '64. (MIRA 17:5)

1. Institut botaniki i mikrobiologii i Otdel genetiki i tsitologii AN BSSR. [illegible]. AN BSSR (for Turbin).

TURBIN, N.V., akademik; TROITSKIY, N.A.; FILIPPOVICH, A.S.; BUDOVSKIY, E.I.; KOCHETKOV, N.K.

Comparison of the mutagenic activity of hydroxylamine and O-methyl-hydroxylamine. Dokl. AN SSSR 158 no.5:1197-1198 O '64. (MIRA 17:10)

1. AN BSSR (for Turbin). 2. Chlen-korrespondent AN SSSR (for Kochetkov).

TURBIN, N.V., akademik; BORMOTOV, V.Ye.; SAVCHENKO, V.K.; MATOSHKO, I.V.

Nucleic acid content in the pollen of diploid and tetraploid sugar beets. Dokl. AN SSSR 161 no.2:463-465 Mr '65.
(MIRA 18:4)

1. Otdel genetiki i tsitologii AN BSSR. 2. AN BSSR (for Turbin).

TURBIN, N.V.; CONCHAROVA, R.I.

Study of the genetic effect of some sulfanilamide compounds on Drosophila melanogaster. Genetika no. 6:94-97 D '65
(MIRA 19:1)

1. Institut genetiki i tsitologii AN BSSR, Minsk.

L 11621-66 EWT(1)/EWA(j)/EWA(b)-2 JK

ACC NR: AP6001736 SOURCE CODE: UR/0020/65/165/004/0931/0932

AUTHOR: Goncharova, R. I.; Turbin, N. V. (Academician AN BSSR)

ORG: Genetics and Cytology Institute of the Academy of Sciences BSSR (Institut genetiki i tsitologii Akademii nauk BSSR)

TITLE: Antimutagenic effect of certain sulfanilamides

SOURCE: AN SSSR. Doklady, v. 165, no. 4, 1965, 931-932

TOPIC TAGS: animal experiment, sulfanilamide, biologic mutation

ABSTRACT: Streptocid or sulcymide was added in sublethal concentrations to standard nutritive media in 2 series of experiments on Drosophila melanogaster lines D-18 and ClB/w to determine antimutagenic effects. In the first series, fertilized females of the D-18 line were placed on nutritive media containing one of the preparations to lay their larvae; 1 to 3 days after hatching, males were selected and crossed with females of the ClB/w line. In the second series, adult males of the D-18 line were placed in a test tube containing nutritive media with one of the preparations for 2 to 3 days and were then crossed with females of the ClB/w line. Antimutagenic effects were determined by the frequency of spontaneous recessive sex-linked lethal mutations found in the offspring. Findings show that streptocid and sulcymide

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ACC NR: AP6001736 O

both displayed a marked antimutagenic effect (0.09±0.03% mutations) in the first series in which the males spent their entire developmental cycle in a medium containing one of the sulfanilamide preparations. Spontaneous mutation was not inhibited by the preparations in the case of adult males (0.38±0.42% mutations) in the second series. The author suggests another possible but rather unlikely interpretation of these data; that is, that the preparations produce a selective effect on the sex cells whereby some of the mutant gametes are practically excluded from fertilization. Strictly speaking, a mutation frequency reduction of this type is not an antimutagenic effect. Also, it is difficult to explain why the sulfanilamide preparations would affect the sex cells only at the larva stage and not at the adult stage. Orig. art. has: [06]
1 table.

SUB CODE: 06, 07/ SUBM DATE: 26Jul65/ ORIG REF: 007/ ATD PRESS: 4177

Card 2/2

KHOTYLEVA, Lyubov' Vladimirovna; TURBIN, N.V., red.

[Breeding hybrid corn; principles and methods for interbreeding capacity] Selektsiia gibridnoi kukuruzy; printsipy i metody selektsii na kombinatsionnuiu sposobnost'. Minsk, Nauka i tekhnika, 1965. 166 p. (MIRA 19:1)

TURBIN, N.V.; TARUTINA, L.A. [Tarutsina, L.A.]; KHOTYLEVA, L.V. [Khatyliova, L.V.]

Results of testing mathematical models for the determination of combining ability. Vestsi AN BSSR. Ser. biial nav. no.1:74-81 '65. (MIRA 18:5)

AKHMEDOVA, Z.P. [Akhmedava, Z.P.]; DOBINA, I.A.; TARUTINA, L.A. [Tarutsina, L.A.]; TURBIN, N.V. [Turbin, N.V.]; KHOTYLEVA, L.V. [Khatyliova, L.V.]

Change in the rate of ripening and heterosis of corn under various cultivation conditions. Vestsi AN BSSR Ser. biial. nav. no.3:54-64 '64. (MIRA 18:1)

TURBIN, P.A., inzhener.

Effect of admixtures on specific power consumption. Bum.prom.31 no.4:14 Ap '56. (MLRA 9:7)

1.Kamskiy tsellyulozno-bumazhnyy kombinat.
(Papermaking machinery--Electric driving)

S/203/61/001/005/025/028
A006/A101

AUTHORS: Shachun'kina, V.M., Turbin, R.I.

TITLE: Preliminary results of observing the ionospheric effect of the solar eclipse on February 15, 1961

PERIODICAL: Gecmagnetizm i aeronomiya, v. 1, no. 5, 1961, 835 - 838

TEXT: An expedition to Tbilisi was organized for the purpose of studying the ionospheric effect of the solar eclipse of February 15, 1961. The phase of eclipse was 0.955 for 240 km altitude. Ionospheric observations over Tbilisi were carried out for the first time; an C-4 (S-4) type ionosound was employed. An analysis of f-graphs plotted shows considerable variability of f_0F2 during the day. The E layer is characterized by the frequent appearance of the E2 layer at 200 km altitude. A marked decrease of critical frequencies of the E, E2 and F1 layers was observed immediately after the beginning of the eclipse. The minimum of electronic density in the E and F1 layers coincides with the maximum phase of the eclipse. Regular changes in f_0E and f_0F1 during the eclipse made it possible to determine the recombination factor for these layers. For the E-layer $\alpha_E = 1.5 \cdot 10^{-8}$ cm^3/sec, $q_o = 400$ el/cm^3 sec. For F_1 $\alpha_{F_1} = 2.10^{-8}$ cm^3/sec. In

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S/203/61/001/005/025/028
A006/A101

Preliminary results ...

the critical frequencies of F2 layer a marked effect of the eclipse was not detected. The results obtained are in agreement with previous investigations by A.L. Al'pert who established that frequently the f_0F2 values in middle and southern latitudes do not change considerably during the eclipse. The effect of the eclipse is marked in the lower part of the ionosphere and decreases gradually with the height. It often vanishes completely at the level of the F2 maximum. The authors thank D. Kavadze, M. Tevdoráshvili, D. Chikovani and T. Khundzhua, workers of the Tbilisi University and the Institute of Geophysics, AS Georgian SSR. There are 4 figures and 2 references: 1Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Propagation of Radiowaves, AS USSR)

SUBMITTED: July 28, 1961

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S/203/61/001/005/027/028
A006/A101

AUTHORS: Ben'kova, N.P., Turbin, R.I., Fligel', M.D.

TITLE: Solar radiobursts at 28 Megacycle frequency on July 12, 1961

PERIODICAL: Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 842 - 843

TEXT: Cosmic radio-emission at 28 Megacycle frequency is reguarly recorded at the ionospheric department of IZMIRAN for the purpose of studying ionospheric absorption. An analysis of the recordings showed that in some cases chromospheric flares caused a greater intensity of signals, which was particularly high during the chromospheric flare on July 12, 1961. The data recorded show that the chromospheric flare was accompanied by radiobursts of types II and IV which were strongly different as to time and nature. During bursts of type II and IV, the radio-radiation intensity increased in the centimeter, meter and 30 Megacycle range (10 meters). This fact does not confirm the concept that the spectrum of type II bursts rapidly decreases with reduced frequency. The different nature of radio-radiation during II and IV type bursts confirms E.I. Mogilevskiy's hypothesis on different mechanisms of generation: plasma, oscillations in the solar atmosphere

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S/203/61/001/005/027/028
A006/A101

Solar radiobursts at 28 Megacycle frequency ...

in the case of type II bursts, and synchrotronous radiation of relativistic electrons in the case of type IV bursts. There are 1 figure and 2 Soviet-bloc references.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Propagation of Radiowaves, AS USSR)

SUBMITTED: September 11, 1961

Card 2/2

KOBO ORTS, Kh. [Cobo Orts, J.]; PIKUS, Z.R.; POKHVALINA, I.M.; TSIMMERMAN, M.G.; TURBIN, T.N., retsenzent; VOSKOBOYNIK, D.I., doktor tekhn.nauk, nauchnyy red.; PUYCH-TORRES, Kh. [Puig Torres, J.], inzh., red.; SOBOLEVA, N.M., tekhn.red.

[Concise Spanish-Russian and Russian-Spanish scientific and technical dictionary] Kratkii ispansko-russkii i russko-ispanskii nauchno-tekhnicheskii slovar'. Nauchn.red. D.I.Voskoboinik. Red.K.Puich-Torres. Moskva, Akad.nauk SSSR, In-t nauchn.informatsii, 1960. 438 p. (MIRA 13:10)

(Spanish language--Dictionaries--Russian)
(Russian language--Dictionaries--Spanish)
(Technology--Dictionaries)

TURBIN, V.

PA - 2848

AUTHOR: TURBIN, V., Member of the Byelorussian Academy of Science.

TITLE: Problems of Genetics - Something about the Present Conception of the Gene. (O sovrem'onnoi kontseptsii gena, Russian)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 4, pp 54 - 67 (U.S.S.R.)

Received: 5 / 1957 Reviewed: 6 / 1957

ABSTRACT: Proceeding from the works by the prominent American geneticists STADLER and M.DOMERTS (who defend the present conception of the gene as a given unit of hybridological analysis), the author expresses his own opinion concerning this important problem. In the Sviet Union the works of the two Americans were subjected to sharp criticism, which, however, should not prevent an inbiased and objective investigation of actual facts, for this is what is concerned in this case. It must be pointed out, that the conception of this gene is closely connected with the research of mutations. It must be born in mind in this connection (also according to STADLER) that not any kind of mutation at present known in genetics is of importance, but only such as have been caused by gene. At first observations depended on technical conditions which were closely connected with the great rarity of this mutative phenomenon. The "inner property" of an organism to develop this or another character-

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PA - 2848

Problems of Genetics - Something about the Present Conception Of the Gene.

istic was called a factor (gene) by BAUR. Later this conception was criticized and the opinion expressed by the Morgan School prevailed (which considered the gene to be a material particle, a corpuscle). However, in the course of recent years a remarkable change took place in that, gradually, the original conceptions are again being adopted. In the course of the past 10 years development was rather complicated and difficult, the conception of gene has by no means become less hypothetical, but, nevertheless, quite valuable material has been accumulated.

ASSOCIATION: Not given.
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

TURBIN, V.N.

Condensation of water vapor in drainage pipes. Pochvovedenie no.6:113-117 Je '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii imeni Kostyakova. Submitted April 3, 1964.

TURBIN, V.N., kand. sel'skokhoz. nauk

Draining effect of subsurface collectors in the Far East. Gidr. i mel. 15 no.12:42 D '63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii im. Kostyakova.

TURBIN, V. N., Cand Agric Sci (diss) -- "The use of underground drainage in the fight against period overflooding of heavy clayey soils, under the conditions of Moscow Oblast". Moscow, 1960. 24 pp (Moscow Order of Lenin Agric Acad im K. A. Timiryazev), 110 copies (KL, No 11, 1960, 136)

TURBIN, Yu. N., kand. med. nauk

Use of hexonium in the preoperative preparation of patients with thyrotoxicosis. Probl. endok. i gorm. 8 no.3:73-76 My-Je '62. (MIRA 15:6)

1. Iz gospital'noy khirurgicheskoy kliniki imeni prof. V. M. Bogoslavskogo (zav. - prof. R. V. Bogoslavskiy) Donetskogo meditsinskogo instituta imeni A. M. Gor'kogo.

(HYPERTHYROIDISM) (HEXONIUM)

L 31134-66 EWP(1)/EWT(1)/EWT(m)/EWP(e) RM/WH

ACC NR: AP6012859 SOURCE CODE: UR/0368/66/004/0351/0353

AUTHOR: Berezin, V. I.; Zubov, V. A.; Kats, M. L.; Kovner, M. A.; Sidorov, N. K.; Stal'makhova, L. S.; Sushchinskiy, M. M.; Turbin, Yu. P.; Shubalov, I. K.

ORG: none

TITLE: Intensities and line thresholds of stimulated Raman scattering

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 4, 1966, 351-353

TOPIC TAGS: laser, stimulated emission, Raman scattering, stimulated Raman scattering

ABSTRACT: The relative values for the threshold I for the intensity of the exciting light necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnoy spektroskopii, v. 1, 1964, p. 202), the authors derived the following formula

$$I_B/I = (I_\infty/\delta)/(I_\infty/\delta)_B \quad \nu^3_{\beta B}/\nu^3_\beta \quad n^3_B/n^3, \qquad (1)$$

where I_∞ is the integral intensity of the SRS line, δ is the line width, ν_β is the frequency of the scattered light, n is the index of refraction, and the subscript B identifies these quantities for benzene. The experimental values of

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UDC: 535.22/36

L 31134-66
ACC NR: AP6012859

2

Table 1. Main parameters and oscillation thresholds for SRS

Substance	$\frac{1}{\Delta\nu}$	$\frac{1}{\nu_R}$	$\frac{1}{\Delta\nu}$	$\frac{I_0}{I_{0B}}$	$\frac{I_0/\Delta\nu}{I_{0B}/\Delta\nu_B}$	n_D	I exp.	I cal.
benzene	992	13411	1.8	1	1	1.50	1	1
1,3-pentadiene	1655	12748	18	1.6	0.2	1.43	0.5	0.25
3-methyl-1,3-butadiene	1638	12765	7	1.3	0.3	1.42	0.8	0.40
carbon disulfide	656	13747	1	1.8	3	1.63	1.6	2.24
styrene	998	13405	2	0.7	0.6	1.55	0.8	0.55
styrene	1602	12801	3	0.9	0.6	1.55	—	0.59
styrene	1634	12769	3	1.6	0.9	1.55	0.9	0.90
toluene	1003	13400	1.6	0.37	0.4	1.50	0.5	0.42
chlorobenzene	1002	13401	1	0.45	0.8	1.52	1	0.78
bromobenzene	1001	13402	1	0.50	0.9	1.56	1.1	0.81
pyridine	992	13411	1.2	0.46	0.8	1.51	1	0.82

1/I for substances investigated in the present paper and in an earlier paper by three of the authors (Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, 1964, p. 784) are compared with the theoretical values derived by using formula (1) (see Table 1). The value of 1/I for the line $\Delta\nu = 992\ cm^{-1}$ in benzene was taken to be unity. Since the values of $n(\nu_R)$ for a ruby laser source were unavailable, the values of n for the D-line of sodium (n_D) were used in the calculations. Orig. art. has: 17 formulas and 1 table. [CS]

SUB CODE: 20/ SUBM DATE: 17Mar65/ ORIG REF: 004/ ATD PRESS: 4240

Card 2/2

S/021/62/000/012/017/018
D205/D307

AUTHORS: Synyavs'kyy, V.G., Turbina, A.I. and Romankevych, M.Ya.

TITLE: The synthesis of p-aminostyrene

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 12, 1962, 1622-1623

TEXT: p-Nitrophenyl chloromethyl carbinol, $p\text{-}NO_2\text{-}C_6H_4\text{-}CH(OH)\text{-}CH_2\text{-}Cl$, was cyclized in high yield to $p\text{-}NO_2\text{-}C_6H_4\text{-}CH\text{-}CH_2$ (epoxide) with aqueous alkali at 40-50°C, and the oxide was then reduced to $p\text{-}NH_2\text{-}C_6H_4\text{-}CH_2CH_2OH$ with (a) Zn dust in aqueous $CaCl_2$ and (b) H_2, using Raney nickel or platinized carbon, in benzene, at 50-60°C and under a pressure of 100-150 atm. p-Aminophenyl ethyl alcohol was then dehydrated to p-aminostyrene, in high yield, by heating with solid KOH, in a stainless steel reactor, under N_2 or reduced pressure (8-10 mm Hg).

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The synthesis of ...

S/021/62/000/012/017/018
D205/D307

ASSOCIATION: Institut khimii polimeriv ta monomeriv AN URSR (Institute of Chemistry of Polymers and Monomers of the AS UkrSSR)

PRESENTED: by A.I. Kiprianov, Academician

SUBMITTED: March 5, 1962

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